

## Response to the Review of 29 July 2005

[Don Lincoln responding]

The CTT group thanks the review committee for their work. In the interests of brevity, we restrict our response to a point-by-point response of the numbered recommendations.

- 1.) This will be done. The L1Caltrack information needs to be specified and Shouxiang will implement it. I have queried the L1Cal people. (Specifically KJ.)
- 2.) This isolated track bits are the only information shared between boards. Correct operation of these signals has been tested between slots 2 and 3 on the test crate on the platform. This shows the basic functionality is OK. The only additional issue might be crate specific opens and/or shorts. Jamieson will verify continuity of the specific blackplane slots.
- 3.) This is much easier to say than do. The L2 records are being checked with an extra CTOC board on the platform. This CTOC checks the L2CFT and L2CPS records for formatting and parity errors. The CTOC does not report any problems with the L2 data coming from the DFEA2. A coaxial cable connecting the DFEA2 to the L1muon system was installed a few weeks ago, but we're not sure to what extent the L1muon group has been testing this link. The DFEA2's output buffers capture all output record types and these records agree with simulation and direct comparison with the DFEA L1, L2CFT, and L2CPS output records. To do a hardware comparison for a larger system than is currently in place on the platform would be very intrusive. We believe the tests done thus far are adequate.
4. Additional LVDS cables have been ordered.
5. Additional DFEA2 boards will be installed in the crate on the platform (18 to make a full crate). This will take a couple of days to arrange..mostly waiting for a long enough access. Other groups need to be notified of the addition to see if they see a degradation of their detector performance when a full crate is in place and humming along.
6. More of the functionality of DFEWare will most likely get rolled into new Expert/Shifter GUIs. Samvel Khalatyan has done some work on this. The work will continue.
7. We agree, although our manpower and expertise make this point problematic. We do not have manpower to do this right now.

8. The new Manchester postdoc (Remi Mommsen) has started this. We hope that there will be quick turnaround, as this is a critical point.

9. Stefan and Jamieson has met with John Anderson and John Foglesong this week to discuss the shutdown schedule and develop a detailed schedule.

10. see #9. There remain some decisions to be made about relocating existing crates.

11. All of the DFE hardware is documented at:

<http://www-d0.fnal.gov/hardware/dfe>

Eric and Shouxiang maintain their respective websites at BU. It would be good for them to formalize their documentation and produce D0 notes. However, for the meantime, the review web site contains links to the relevant documents.

12. This will be handled at a paygrade higher than mine.

13. Samvel Khalatyan has written a database that can handle this. Fields still need to be entered, but the basic framework is well in hand.